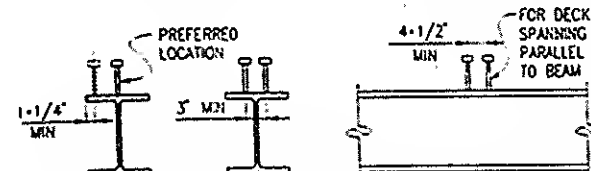


UNFRAMED OPENING OR SLEEVE THROUGH SLAB ON STEEL DECK

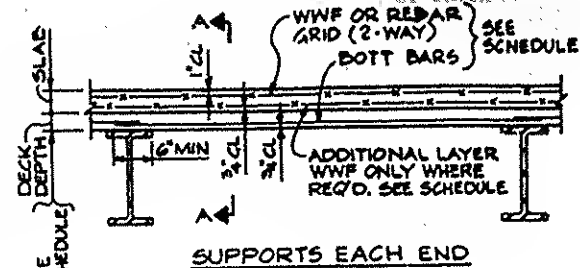
FOR DETAILS OF ADDITIONAL BARS AT REBAR GRIDS SEE (M). SIZE AND LOCATION OF OPENINGS NOT SHOWN IN STRUCTURAL DRAWINGS SHALL BE SUBMITTED THROUGH THE ARCHITECT TO THE STRUCTURAL ENGINEER FOR REVIEW.

(N) SLAB/DECK

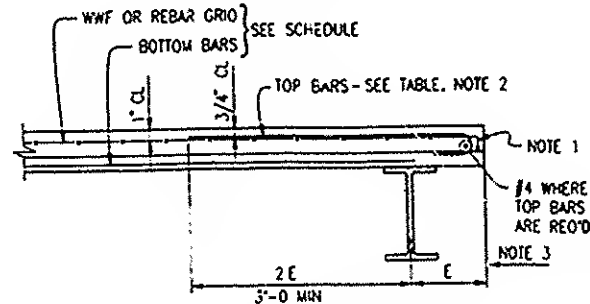
- WHERE DECK SPANS PERPENDICULAR TO BEAMS, THE SHEAR CONNECTORS SHALL BE PLACED IN VALLEYS WITH A MAXIMUM OF 2 SHEAR CONNECTORS PER VALLEY, UNLESS OTHERWISE NOTED. SHEAR CONNECTORS SHALL BE KEPT CLEAR OF DECK ENDS, SEAMS, AND EMBOSSEMENTS. SHEAR CONNECTORS SHALL NOT BE PLACED UNDER OR WITHIN 3' OF TRENCH HEADERS OR ELEVATORS SHEAVE BEAMS.
- WHERE A SINGLE NUMBER IS INDICATED [] IN PLAN, THE NUMBER OF SHEAR CONNECTORS SHALL BE DISTRIBUTED UNIFORMLY ALONG THE LENGTH OF THE BEAM, UNLESS OTHERWISE NOTED.
- WHERE A SINGLE NUMBER IS INDICATED [] IN PLAN AND THE EXTENT IS DESIGNATED BY ARROWS, THE NUMBER OF SHEAR CONNECTORS SHALL BE DISTRIBUTED UNIFORMLY ALONG THE DESIGNATED LENGTH.
- WHERE [MIN] IS INDICATED IN PLAN, PROVIDE SHEAR CONNECTORS AT 24" O.C.
- UNIFORM SPACING ON BEAMS WITH DECK SPANNING PERPENDICULAR SHALL BE ACHIEVED AS FOLLOWS:
 - WHERE THE NUMBER OF SHEAR CONNECTORS IS LESS THAN THE NUMBER OF VALLEYS, INTERMIX 12" AND 24" SPACING
 - WHERE THE NUMBER OF SHEAR CONNECTORS IS GREATER THAN THE NUMBER OF VALLEYS, INTERMIX ONE SHEAR CONNECTOR PER VALLEY WITH TWO SHEAR CONNECTORS PER VALLEY APPLICATION, WITH A MAXIMUM SPACING OF 12" O.C.



(P) STUD SHEAR CONNECTORS



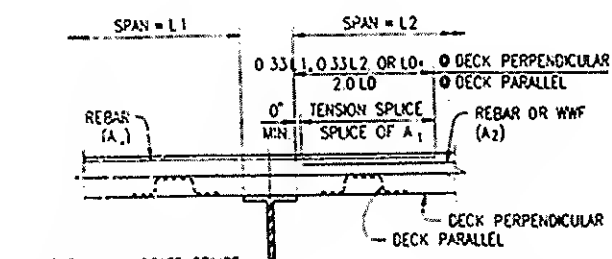
(A) EDGE CONDITION



(K) SLAB/DECK

- NOTES:**
- BEND OVER WWF FOR REBAR GRID PROVIDE STANDARD HOOK.
 - WHERE GRID REBARS ARE EQUAL TO OR GREATER IN AREA PER FOOT THAN REQUIRED TOP BARS, TOP BARS MAY BE OMITTED.
 - FOR LOCATION SEE PLAN. IF NOT NOTED IN PLAN OR SECTION, EDGE OF SLAB IS FLUSH WITH EDGE OF FLANGE.

(L) SLAB/DECK

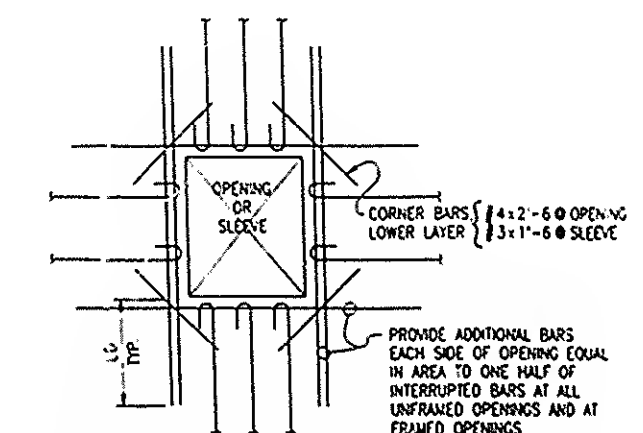


WHERE A1 > A2, LOCATE SPLICE ON SIDE OF BEAM WITH A2

WHERE A1 < A2, LOCATE SPLICE ON EITHER SIDE OF BEAM

SPLICING REINFORCEMENT IN REBAR GRID

(L) SLAB/DECK

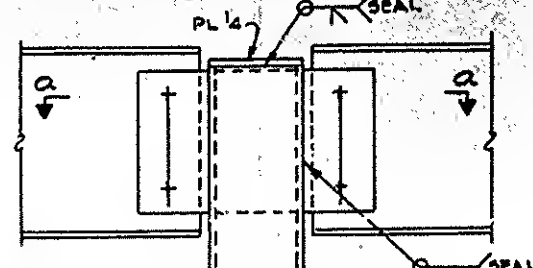


FRAMED AND UNFRAMED OPENING OR SLEEVE THROUGH SLAB ON STEEL DECK WITH REBAR GRID

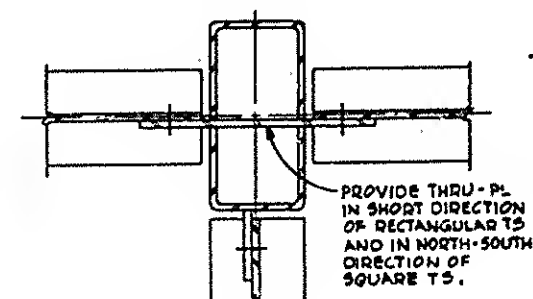
FOR BOTTOM BAR ARRANGEMENT SEE (N).

SIZE AND LOCATION OF OPENINGS NOT SHOWN IN STRUCTURAL DRAWINGS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW.

(M) SLAB/DECK



REFER TO (C) FOR INFORMATION NOT SHOWN



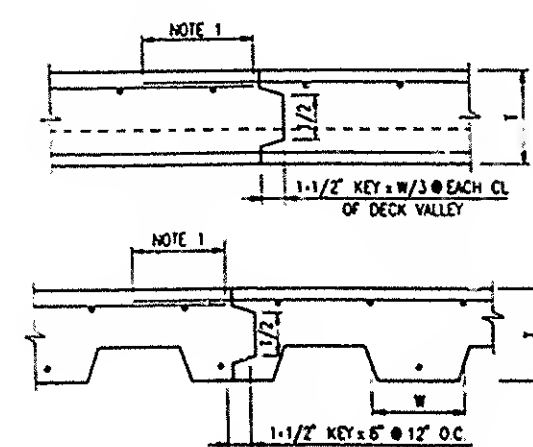
(F) CONNECTION OF BEAM TO T/C COLUMN

- For extent of slab/deck type, see plans and details. For description of slab/deck type, see schedule and details.
- For spans with supports at both ends, provide deck proportioned compositely to sustain the superimposed load indicated in schedule, except that, for spans including trench headers, provide deck proportioned non-compositely. Provide deck proportioned also to satisfy the following criteria for function as a form:
 - A. Dead load deflection limited to 1/180 of span or .75 in., whichever is smaller.
 - B. Steel stress limited to not more than 26700 psi for dead load plus 275 lb. concentrated load at midspan or, steel stress limited to not more than 20000 psi for dead load plus 20 psf additional load, whichever is more severe.
- For deck supporting cantilevers, provide deck proportioned to satisfy the following criteria for function as a form:
 - A. Dead load deflection limited to 1/90 of overhang or .375 in., whichever is smaller.
 - B. Steel stress limited to not more than 26700 psi for dead load plus 275 lb. concentrated load at outside end of overhang or, steel stress limited to not more than 20000 psi for dead load plus 20 psf additional load, whichever is more severe.
- WW indicates normal weight aggregate concrete. LW indicates lightweight aggregate concrete.
- Provide additional concrete as required to compensate for deflections of beams and of steel deck.

(G) SLAB/STEEL DECK

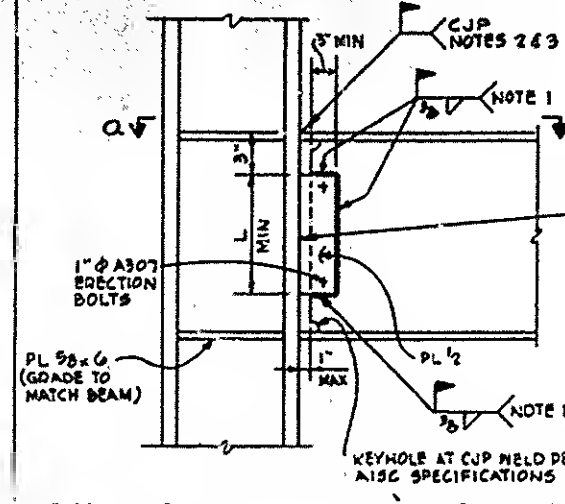
TYPE	DECK DEPTH (IN)	SLAB AGGREGATE	THICKNESS (IN)	REINFORCING	REMARKS
D1	2	LW	200	#5 @ 7" (N-S) #4 @ 9" (E-W)	BULKHEAD
D2	2	LW	200	#4 @ 6" W2.0, 2.0	CHILLTANK ROOM DECK
D3	1 1/2	LW	200	#4 @ 6" W2.0, 2.0	WALL

(H) SLAB/DECK

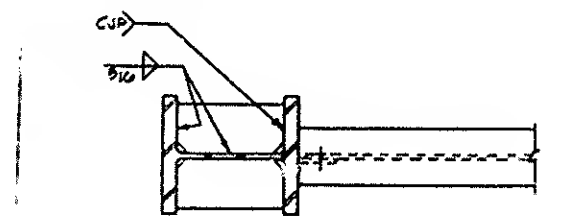


NOTE 1: TENSION SPLICE IN REBAR GRID ONLY WHERE ACCEPTED BY STRUCTURAL ENGINEER. STAGGER SPLICE.

(J) SLAB/DECK



BEAM - COLUMN MOMENT CONNECTION

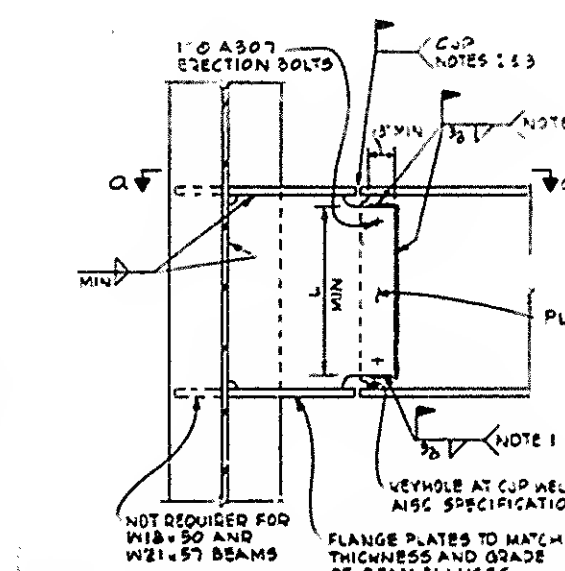


(D) CONNECTIONS

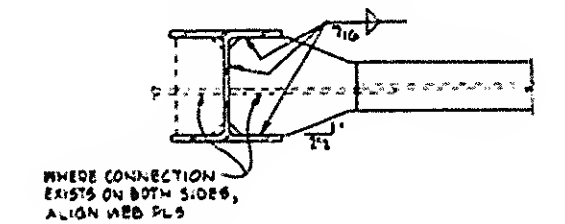
TABLE

BEAM SIZE	L
W27 x 84	18
W21 x 84	21
W18 x 50	12
W14 x 60	12
W21 x 97	14

- NOTES:**
- REFER TO TABLE FOR WELD LENGTH.
 - WELD FROM BOTH SIDES, WHERE BACKING BAR USED REMOVE BAR, BACK GROUT, WELD FLUSH AND ADD A 1/4" REINFORCING FILLET WELD.
 - USE RUN-ON AND RUN-OFF TABS. REMOVE TAB AFTER WELDING AND FINISH TO SMOOTH CONTOUR PER 9.12.3 OF AWS D1.1-94.



BEAM - COLUMN MOMENT CONNECTION FOR TABLE AND NOTES SEE (D)



(D) CONNECTIONS

(E) CONNECTIONS